ECOMETHOD
BY BMS MICRO-NUTRIENTS

Some examples of ECOMETHOD from clients who already apply our foliar nutrition programs

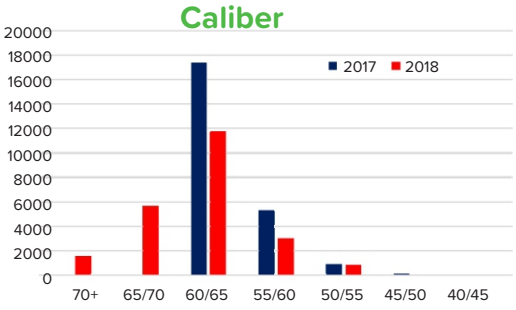
Plums - Italy - Ravenna

Variety: Yummi, with major difficulties regarding iron chlorosis and productivity

-70 % CO_2

Traditional nutrition of the parcel :
N: 88 units; P_2O_5: 64 units; K_2O: 143 units + basic products with trace elements

Program BMS Micro-Nutrients:
N: 20 units; P_2O_5: 5 units; K_2O: 47 units + foliar nutrition program BMS MN (3,3 kg Fructol, 6 L Chelal Omnical, 3,5 L Chelal B, 8,3 kg Chelal RD, 1,3 L Chelal Fe, 1 L Chelal Mn, 4,8 L Chelal Mg, 5 kg Kappa V, 3,5 L Chelal Zn.



Results:

- Reduction of carbon footprint: **- 69,97 %**
  (288,53 CO_2 eq with applications of BMS MN while 900,69 kg CO_2 eq per ha with traditional fertilization)
- 2016 was a year of fruit recovery.
  The productivity in 2017 and 2018 was respectively:
  27080 kg/ha (86 % of first quality) e **28078 kg/ha** (80 % of first quality)

Hops - Slovenia - Slovenian Institute of Hop Research and Brewing

The soil fertilization wiht P en K was the same on all parcels. In this field test we only studied the effect of a reduction in the amount of nitrogen used. That is why we cannot express the reduction of the ecological footprint of fertilization as a percentage. We only give an indication of the CO2 reduction that corresponds to the reduction in applied nitrogen.

Traditional fertilization:	P, K + 170 units N to the soil - without foliar nutrition
BMS MN 1:	P, K + 120 units N to the soil - Foliar nutrition: 1,5 kg Fructol, 7 kg Kappa V, 2 kg Kappa G
BMS MN 2:	P, K + 70 units of N to the soil - Foliar nutrition: 1,5 kg Fructol , 7 kg Kappa V, 2 kg Kappa G

Results:

Carbon footprint:
Traditional fertilization: carbon footprint: 824 kg CO_2 eq
BMS MN 1: carbon footprint: 592,6 kg CO_2 eq **(-231,4 kg CO_2 eq)**
BMS MN 2: carbon footprint: 350,1 kg CO_2 eq **(-473,9 kg CO_2 eq)**

-28 %
-57 % CO_2

Productivity (kg Alpha Acids per ha):
Control: 128 kg - BMS MN 1: **141 kg** and BMS MN 2: **129 kg**

FOLIAR FERTILIZATION
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Industrial tomatoes - Italy - Ravenna

-92 % CO_2

Traditional fertilization of the parcel:
22000 kg digestat (organic fertilizer) + 67 units N in the form of ammonium nitrate

Program BMS Micro-Nutrients:
no soil fertilization + foliar fertilization program of BMS MN (4 kg Fructol, 4 L Chelal Omnical, 3 kg Chelal RD, 25 kg Kappa V, 16 kg Kappa G)

Results
Carbon footprint: Traditional fertilization: carbon footprint: 797,95 kg CO_2 eq
Program BMS MN: Carbon footprint: 62,23 kg CO_2 eq **(-92 % CO_2 eq)**
Productivity (kg per ha): Control: 41480 kg (5,2 ° Brix) - BMS MN: **44000 kg/ha (4,8 ° Brix)**

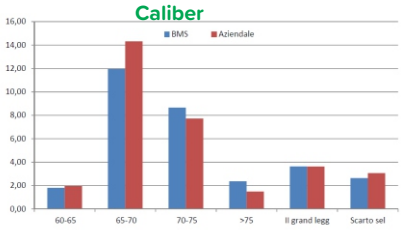
Pears - Italy - Ravenna

-79 % CO_2

Field test with total foliar nutrition on variety Abate Fetel.

Traditional fertilization: 200 kg ureum to the soil - no foliar nutrition
BMS MN: NTF program: 41 kg Emma Mix, 26 kg Kappa G, 10 L Chelal Fe, 4 L Chelal Mn, 4,75 L Chelal B, 3,75 L Chelal Zn, 8 kg Chelal Noor

Resultaten:
Traditional fertilization: carbon footprint: 446,2 kg CO_2 eq
Program BMS MN: carbon footprint: 120,08 kg CO_2 eq **(-79,09 % CO_2 eq)**
Note: Emma Mix is not provided in the tool. Therefore we replaced this product with Kappa G in order to calculate the footprint.



Productivity (kg per ha):Control: 32170 kg - BMS MN: **31070 kg**

Maïs - Italy - Terremerse

-35 % CO_2

In this field test, we only checked the effect of reducing nitrogen. The fertilization with P and K remains the same on all plots.
Traditional fertilization: 450 kg ureum to the soil = 207 U N - without foliar nutrition
BMS MN: 275 kg ureum to the soil = 126,5 U N + 8 L Azavis Mn/Zn
Results: Traditional fertilization : carbon footprint: 1003,95 kg CO_2 eq
BMS MN: carbon footprint: 652,18 kg CO_2 eq **(-35,04 % CO_2 eq)**

Productivity (kg per ha): Control: 14830 kg - BMS MN: **15430 kg**

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